

AMENDMENTS TO THE CLAIMS

1. (currently amended) A foldable bicycle comprising:
a front wheel,
a rear wheel,
handlebars to direct the front wheel,
a frame,
a guide rod in operative communication with the frame connecting the handlebars to the front wheel,
a saddle comprised of a seat, and
wherein the frame comprises a mechanism so that a plane of the front wheel is parallel to a plane of the rear wheel and so that the front wheel is situated facing the rear wheel with their axes merged at the time of folding, and characterized in that
wherein the bicycle comprises a mechanism for translation of the front wheel perpendicular to a plane of the bicycle, and
wherein the guide rod comprises a plurality of folding axes with one of the folding axes enabling the handlebars to be folded about the one of the folding axes and another one of the folding axes enabling the front wheel to be folded about the another of the folding axes.
2. (previously presented) The bicycle according to claim 1, wherein frame comprises a first channel in a form complementary to a form of the handlebars, and articulation means of the handlebars so that the handlebars are housed in the channel at the time of folding.

3. (currently amended) The bicycle according to claim 1, wherein the handlebars comprise a portion of the guide rod, a first handle and a second handle, the first and second handles connected to the guide rod so as to fold along the guide rod at the time of folding the bicycle.
4. (previously presented) The bicycle according to claim 1, wherein the saddle comprises a second channel in a form complementary to the form of the handlebars.
5. (currently amended) The bicycle according to claim 4, wherein the saddle further comprises ~~is formed by a seat and by a seat post~~, the second channel being formed along the seat and along the seat post.
6. (currently amended) The bicycle according to claim 1, wherein:
 - the front wheel of the bicycle is connected to the handlebars by the guide rod, the guide rod comprising a monofork that is situated on a first side of the plane formed by the bicycle,
 - the rear wheel is connected to a crank gear wheel that is situated on a second side of the plane formed by the bicycle.
7. (previously presented) The bicycle according to claim 1, wherein the frame comprises at least one third channel in a form complementary to a form of part of one of the two wheels.

8. (currently amended) A method of folding a bicycle , wherein the method comprises the following steps:

- handlebars carried by a guide rod are folded in a first channel formed in a frame; by rotation of the handlebars around a first folding axis of the guide rod,
- a saddle is folded against the frame to overlap the handlebars by a second channel formed by the saddle; by rotation of the saddle around a second folding axis,
- a front wheel carried by the guide rod, the front wheel is displaced by translation perpendicular to a plane formed by the bicycle, ~~then~~ wherein the front wheel is folded in the direction of a rear wheel by rotation of the front wheel around a third folding axis of the guide rod such that a portion of the guide rod folds with the front wheel in the direction of the rear wheel, and
- the rear wheel is folded in the direction of the front wheel by rotation of the rear wheel around a fourth folding axis.

9. (previously presented) The folding method according to claim 8, wherein the rear wheel is folded in a first third channel formed in the frame, and the front wheel is folded in a second third channel formed in the frame.

10. (previously presented) The folding method according to claim 8, wherein the rear wheel and front wheel are folded in the same third channel formed in the frame.

11. (previously presented) The folding method according to claim 8, wherein the rear wheel and front wheel are folded respectively in a first third channel and in a second third channel formed in the frame.

12. (previously presented) The folding method according to claim 8, wherein the bicycle is raised vertically with relation to a plane of normal displacement of the bicycle before folding the front wheel and the rear wheel.

13. (currently amended) The folding method according to claim 8, wherein the saddle comprises a seat and the seat post, a mud guard carries the seat post with the second folding axis disposed on the mud guard such that the seat post rotates about the second folding axis relative to the mud guard and wherein the mud guard is folded by rotation of this the mud guard around a fifth folding axis situated on the saddle frame.

14. (currently amended) A foldable bicycle comprising:
a frame having at least one recessed channel;
a handlebar stem supported by the frame and comprising a plurality of handlebar handles;
a front wheel connector supported by the frame and carrying a front rotatable wheel;
a rear wheel connector attached to the frame and carrying a rear rotatable wheel;
a seat post operably attached to the frame and carrying a seat;
a fender operably attaching the seat post to the frame;
at least a plurality of pairs of bicycle fold axes with a first fold axis permitting the handlebar stem to be pivotable relative the frame toward the frame, a second fold axis on the fender permitting the seat post to be pivotable relative the frame toward the one of the recessed frame channels, a third fold axis permitting the fender to be pivotable relative the frame, a fourth fold axis permitting one of the front and rear wheel connectors to be pivotable relative the frame toward the at least one of recessed frame channel, and a fifth fold axis permitting the other one of the front and rear wheel connectors to be pivotable relative the frame towards the frame;
wherein when the bicycle is in a folded position, a portion of one of the front and rear wheels is seated in the at least one of the recessed frame channels and the other one of the front and rear wheels is disposed adjacent the other one of the front and rear wheels such that the axis of rotation of the front and rear wheels is substantially coincident.

15. (previously presented) The bicycle according to claim 14, wherein the at least one recessed frame channel comprises a plurality of recessed frame channels with the portion of one of the front and rear wheels being seated in one of the recessed frame channels when the bicycle is folded and at least a portion of the handlebar stem is seated in the other one of the recessed frame channels when the bicycle is disposed in the folded position.

~~17~~16. (currently amended) The bicycle according to claim 15, wherein the seat post is elongate and has a longitudinally extending recessed channel formed therein in which an opposite portion of the handlebar stem seats when the bicycle is disposed in the folded position.

~~16~~17. (currently amended) The bicycle according to claim 15, wherein each one of the handlebar handles is foldable against the handlebar stem.

~~17~~18. (currently amended) The bicycle according to claim 15, wherein the frame includes a third one of the recessed frame channels in which a portion of the other one of the front and rear wheels seats when the bicycle is disposed in a folded position.

~~18~~19. (currently amended) The bicycle according to claim 14, wherein the frame and wheels are disposed in a common plane when the bicycle is disposed in an unfolded operating position with the front wheel connector and rear wheel connector disposed alongside to one side of the bicycle operating position plane.

~~19~~20. (currently amended) The bicycle according to claim ~~18~~19, wherein the front wheel connector comprises a fork disposed along one side of the bicycle operating position plane and the rear wheel connector comprises a crank gear wheel disposed along the other side of the bicycle operating position plane.

~~20~~21. (currently amended) The bicycle according to claim ~~19~~20, wherein the fork comprises a monofork that is connected to the handlebar stem.

22. (new) The bicycle according to claim 5, further comprising a mud guard carried by the frame to which the seat post is pivotally connected defining a folding axis about which the seat and seat post are foldable.

23. (new) The bicycle according to claim 22, wherein the mud guard is pivotally attached to the frame defining another folding axis about which the mud guard is foldable.